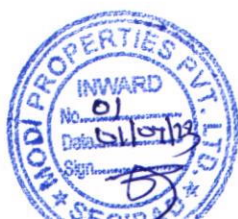


PURCHASE DIVISION
Advice for approval for credit to supplier

Date: 01.04.23		Prepared by: V. RAVI		Serial no. 16069	
Supplier name: ESennar Transformers Pvt Ltd		HO inward no.			
Firm/Company: G.V.R.C		Project: Indrapolis		HO received date	
PO/WO date: 23.11.22		PO/WO No. 92551		Scan ID.	
Sl no.	Bill no.	Bill date	Bill amount	Original attached	
1.	2022-23 / 743	28.02.23	46,18,000 - 00	☒ Yes ☐ No	
2.			/	☐ Yes ☐ No	
3.				☐ Yes ☐ No	
4.				☐ Yes ☐ No	
Amount A – Bills total (Excluding Transport & Hamali Charges):				46,18,000 - 00	
Proof of delivery by way of: ☒ DCs/bill ☐ Steel report ☐ RMC pour report ☐ Solid block report ☐ Installation report					
MRN nos.:	118057		Proof of delivery matches MRN	☒ Yes ☐ No	
Amount B – Other Credits : Transportation charges				-	
Amount C – Other Debits :				-	
Amount D (D=A+B-C) – Amount to be credited to the supplier:				46,18,000 - 00	
Amount E – PO / WO value:				46,18,000 - 00	
Amount F – Difference (A – E):				NIL	
Quantity received as per PO / WO		☒ Yes ☐ Excess received ☐ Short received ☐ Part received			
Close PO / WO		☒ Yes ☐ No – wait for balance material ☐ Other			
Payment – due date		100% - Advance paid.			
Remarks: find bill & close this P.O					
Approved by	Purchase Officer	Purchase Manager	M D	Accountant	Accounts Manager
Name:		V. RAVI			
Sign:					
Date		01.04.23			
Approval limit	Upto 20k	Above 20k	Above 100k	Upto 20k	Above 20k

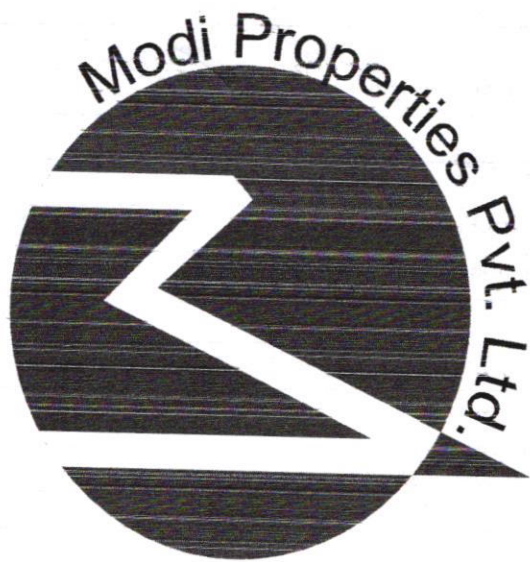
Notes: 1. In case amount to be credited to supplier and the bills total does not match, accountants to prepare JV for debit or credit. 2. This set should only have 5 documents i.e., advice to credit to supplier, original bill, proof of delivery, original purchase order with barcode, original requisition. 3. Do not attach additional documents like weightment slips, RMC batch reports, duplicate documents, Eway bills, test reports, etc. 4. In Amount A, exclude transport, Hamali charges, etc., and instead include in Amount B. 5. This report must reach HO within one working day of approval by purchase officer/purchase manager.



Form for closure of purchase order

PO no.: 98551	PO date: 4/10/22	Req. no.: 806313	Advice Scan ID
Barcoded PO available ☒ Y/ ☐ N	Invoice original available ☒ Y/ ☐ N	Copy available ☐ Y/ ☐ N	POD available ☒ Y/ ☐ N
Data required from site/engineers:			
MRN nos. related to PO 118057			
☐ Part material received.		☒ Full material received.	
☐ Material not received.			
☐ Close PO – Balance material will be re-ordered by new requisition.			
☐ Cancel PO. Material not required.		☐ Cancel PO. Material will be re-ordered by new requisition	
☐ Keep PO open. Material required.		☐ Keep PO open. Work under progress.	
Remarks by engineer:			
Notes: 1. Provide details of material received by way of separate attachment. 2. Provide scanned copy of DCs/proof of delivery + PO. 3. Provide copies of invoices if available. 4. This entire set to be scanned and sent to Ravi.			
Prepared by: Khinami		Sign: [Signature] Date:	
Data required from accounts:			
☐ Checked with E&D for receipt of bills.			
☐ Bills not received against this PO.		☐ Part bill received against this PO.	
☒ Advance paid against this PO		Amount paid: 46,18,001	
		Date of payment: 14/10/2023 & 20/2/23	
Details of part bill received:			
Sl. No.	Bill no.	Bill date	Bill amount
1.			
2.			
3.			
Remarks by Accountants:			
Prepared by: A. Praveen Rgu.		Sign: [Signature] Date: 31-3-23	
Notes: 1. POs/WOs issued for turnkey works - may have been processed by E&D. Check before filling the above.			
Prepared by:		Sign: Date:	
Remarks by Ravi + details of bills to be approved:			
Sl. No.	Bill no.	Bill date	Bill amount
1.	2022-23/743	28.02.2023	46,18,000.00
2.			
3.			
Remarks: need MD's approval for enclosed invoice			
Prepared by: Ravi		Sign: [Signature] Date: 31.03.23	
Advice by MD - action to be taken.			
☒ Get certified bill from supplier (not original).		☐ Prepare bill in SSLP for material supplied.	
☒ Thereafter, prepare advice for credit to supplier and send to Soham for processing.			
☒ Close PO		☐ Keep PO open. Material awaited	
☐ Accounts to be reconciled with supplier. Get supplier's ledger.			
Remarks:			
Approved by: Soham		Sign: Date:	

APPROVED BY
-1 APR 2023
SOHAM MODI
MANAGING DIRECTOR



**MODI
PROPERTIES**

mailaram,,Sangareddy

No.: 2022-23/743

Date: 28.02.2023

Your Ref. Doc No.92551 206313, Dt:23-11-2022.

CONSIGNEE

GV RESEARCH CENTERS PRIVATE LIMITED

Sy No.542, GENOME VALLEY,

THURKAPALLY,

HYDERABAD-500078.

GSTIN No.: 36AAHCG4562D1ZP

STATE : TELANGANA

STATE CODE: 36

DESPATCH DETAILS:

O No.	Item	QTY
2-8152	2500KVA(33/0.433V)OLTC TRANSFORMER IS: 1180 LEVEL-2	1

Transporter Name: DYNAMIC LOGISTICS OF INDIA

LR no & Date : 34676

Vehicle No AP 26 X 8883

CONDITIONS TO BE COMPLIED IN CASE OF NON DELIVERY / DAMAGES IN TRANSIT

1. In case of non-delivery intimation should be received by us within 30 days of despatch.
2. In case of apperent damage in transit open delivery of the consignment should be taken from the carriers and a joint inspection Report giving details of damages/shortages should be made out in duplicate and signed by the consignee and carriers representative.
3. If the damages are extensive and/are the claim is likely to be for a substantial amount the consignee should contact the local branch of the insurance Co. with whom the consignment is insured to arrange for survey.
4. The consignee sould lodge a claim with the carriers so as to reach them before expiry of 6 months of the date of the RR/LR, the following documents .

5. If insurance is arranged by us, we should receive within 15 days of delivery an intimation with details of damages/shortages and within 6 months of the RR/LR, the following documents.

- a) A copy of the relevent claim cill and the covering letter.
 - b) Open delivery certificate or joint inspection report in original, signed by both the carriers representatives.
 - c) Acknowledgement ,if any received from the carriers for the claim lodged.
 - d) A lerrer of Authority signed by the consignee authoriseing us to receive the claimed amount (if th carriers are Railways this letter of authority should be attested by the station master of the destination Railway station).
6. Free replacenents or free repairs can be undertaken only .
- a) Subject to conditions of contract.
 - b) If we have insured the consignment and
 - c) If the above conditions are satisfied.

per attached Packing List

Total

1

NOTE : Breather Should be fixed immediately after unloading the transformer.

ed the above goods in good order and condition

NNAR TRANSFORMERS PVT LTD UNIT-II

Authorised Signatory

INWARD	
Inward No: 11354	Dt: 13/23
MRN No: 116052	Dt: 04/04/23
Received By: D. Raju	Sign: D. Raju
Genome Valley Research Center Pvt. Ltd	

Purchase Order

Page(s) 1 Of 1

23-11-2022 14:48:28

Original / Office Copy / Purchase Div.Copy

From Company : **G V Reserch Centers Pvt Ltd**
5-4-187/3&4, II nd Floor, Soham Mansion, MG Road, Secunderabad-500003
G S T No. : 36AAHCG4562D1ZP

Supplier Details

Esennar Transformers Pvt Ltd
Plot no 2, Phase no 1, IDA Pashamailaram, Near: [Patancheru,
Sangareddy-502307, Telangana

GSTIN 36AAACE8075C1ZS

8978171717

8978171717

Doc No	92551	206313
Doc Date	23-11-2022	
Quote No	22895	
Quote Date	30-08-2022	
SupplyType	Supply	

Kind Attn : D Balakrishna

Purchase Order for the Supply of following Items.

Item Name	Qty	Rate	Dis%	GST	Amount
1 679900 - ELEC-Electrical - Transformer-- - NA - Nos 2500 kVA Transformer - Oil cooled - 33kV/433V	1.00	3,913,560.	0.00	18.00	4,618,000.80
Total Order Value . . .					4,618,000.80

Rupees : Forty Six Lakh(s) Eighteen Thousand and Paise Eighty Only.

Terms and Conditions :-**Specification / Brand** Esennar make 2500KVA Transformer, Specifications as per your quotation no: 22895, dated: 17-06-2022.**Payment Terms** 30% of basic price as advance along with PO. Balance payment against Performa Invoice before dispatch.**Tax** Included.**Delivery Date** 6-7 weeks from the date of receipt of advance payment.**Delivery Location** Innopolis
Sy no-542, Genome Valley, Thurkapally, Hyderabad, Telangana
Phone. Nagamani(Engineer) - 7981951035**Penalty For Delay** Nil.**Transportation Cost** Included.**Warranty** 36 months from the date of dispatch.**Advance Paid** Rs: 13,50,000 by Cheque/RTGS. Cheque no: _____, dated: _____.**Other Terms** We reserve the right to reject items not conforming to quality and specifications.**Completion Date** Nil.**Measurment** Nil.**Security** Nil.**Remarks** Original Invoice + Copy of proof of delivery is required to process invoice for payment. DO NOT send original invoice to site. Original Invoice must be sent to Head Office. Proof of delivery/DC can be sent by email.For **G V Reserch Centers Pvt Ltd**

Authorised Signatory

Name : _____

Contact :-

Accepted the above Terms And Conditions

For **Esennar Transformers Pvt Ltd**

Name : _____

Date : __/__/__

Subject: Fw: GVRC Esennar 2500 KVA Transformer
From: riya zuddin <riyazuddin@modiproperties.com>
Date: 23-11-2022, 3:22 PM
To: "Minish ." <minish@modiproperties.com>

Dear Minish Bhai,
Please find the attached Esennar PO which is amended and approved by MD Sir
can see in the trail emails. Please forward the same to the supplier I am sending you
the email ids thru viber

Regards,

Md.Riyazuddin
Manager Procurement | +91 77025 38383 | riyazuddin@modiproperties.com
Modi Properties Pvt. Ltd. | www.modiproperties.com
5-4-187/ 3 & 4, M G Road, Secunderabad - 03 | +91 40 66335551
Don't just buy a flat or villa! Buy a great lifestyle!
We build affordable flats & villas in gated communities.

----- Forwarded Message -----

From: waseem@modiproperties.com <waseem@modiproperties.com>
To: riyazuddin@modiproperties.com <riyazuddin@modiproperties.com>
Sent: Wednesday, November 23, 2022 at 02:39:18 PM GMT+5:30
Subject: Fw: GVRC Esennar 2500 KVA Transformer

Sent from Yahoo Mail on Android

----- Forwarded message -----

From: "sohammodi@modiproperties.com" <sohammodi@modiproperties.com>
To: "waseem@modiproperties.com" <waseem@modiproperties.com>
Cc: "MEP Group" <mep@modiproperties.in>, "Procurement Group" <procurement@modiproperties.in>
Sent: Wed, 23 Nov 2022 at 14:02
Subject: RE: GVRC Esennar 2500 KVA Transformer

Approved

Regards,

Soham Modi

From: waseem@modiproperties.com <waseem@modiproperties.com>
Sent: 23 November 2022 11:21
To: Soham Modi <sohammodi@modiproperties.com>

Cc: MEP Group <mep@modiproperties.in>; Procurement Group <procurement@modiproperties.in>
Subject: GVRC Esennar 2500 KVA Transformer

Soham Sir,

Kindly find trail email from Esennar for GVRC 2500 KVA second Transformer.

They have requested for Rs. 1,00,000/- extra on basic price towards Master follower switch and Cable glands.

The amended PO value will be Rs. 46,18,000/- as against PO value of Rs. 45,00,000/-

For approval.

Regards,

Sayed Waseem Akhtar

Associate Vice President - Cluster Development

Innopolis | +91 93475 76914

www.innopolis-gv.com

Grade A Campus for Life Sciences companies @ Genome Valley.

----- Forwarded Message -----

From: S Raju TS Esennar <ts@esennar.com>

To: "waseem@modiproperties.com" <waseem@modiproperties.com>

Cc: 'M. Ramesh Reddy Construction' <rameshreddy@modiproperties.com>; 'Rajeev Vichare' <rajeev.v@dhariaswitchgear.com>; "bk@esennar.com" <bk@esennar.com>; "jawed@esennar.com" <jawed@esennar.com>; "customersupport@esennar.com" <customersupport@esennar.com>; "ts@esennar.com" <ts@esennar.com>; "vpmktg@esennar.com" <vpmktg@esennar.com>

Sent: Wednesday, November 23, 2022 at 09:06:28 AM GMT+5:30

Subject: RE: GVRC Esennar Zoom Meeting

Purchase Order

Page(s) 1 Of 1

08-10-2022 16:19:46



92551

03.10.22 5:34:55

From Company : **G V Reserch Centers Pvt Ltd**
5-4-187/3&4, II nd Floor, Soham Mansion, MG Road, Secunderaba
G S T No. : 36AAHCG4562D1ZP

Supplier Details

Esennar Transformers Pvt Ltd
Plot no 2, Phase no 1, IDA Pashamailaram, Near: [Patancheru,
Sangareddy-502307, Telangana

GSTIN 36AAACE8075C1ZS

8978171717

8978171717

Doc No	92551	206313
Doc Date	04-10-2022	
Quote No	22895	
Quote Date	30-08-2022	
SupplyType	Supply	

Kind Attn : D Balakrishna

Purchase Order for the Supply of following Items.

Item Name	Qty	Rate	Dis%	GST	Amount
1 679900 - ELEC-Electrical - Transformer-- - NA - Nos 2500 kVA Transformer - Oil cooled - 33kV/433V	1.00	3,813,560.	0.00	18.00	4,500,000.80
Total Order Value . . .					4,500,000.80

Rupees : Fourty Five Lakh(s) and Paise Eighty Only.

Terms and Conditions :-

Specification /	Esennar make 2500kVA Transformer, Specifications as per your quotation no: 22895, dated: 17-06-2022.
Payment Terms	30% of basic price as advance along with PO. Balance payment against Performa Invoice before dispatch.
Tax	Included.
Delivery Date	6-7 weeks from the date of receipt of advance payment.
Delivery Location	Innopolis Sy no-542, Genome Valley, Thurkapally, Hyderabad, Telangana Phone. Nagamani(Engineer) - 7981951035
Penalty For Delay	Nil.
Transportation	Included.
Warranty	36 months from the date of dispatch.
Advance Paid	Rs: 13,50,000 by Cheque/RTGS. Cheque no: _____, dated: _____.
Other Terms	We reserve the right to reject items not conforming to quality and specifications.
Completion Date	Nil.
Measurment	Nil.
Security	Nil.
Remarks	Original Invoice + Copy of proof of delivery is required to process invoice for payment. DO NOT send original invoice to site. Original Invoice must be sent to Head Office. Proof of delivery/DC can be sent by email.

For **G V Reserch Centers Pvt Ltd**

Authorised Signatory

Accepted the above Terms And Conditions

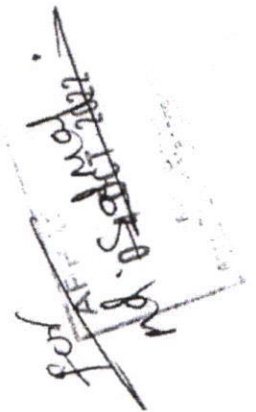
For **Esennar Transformers Pvt Ltd**

Name : _____

Name : _____

Date : ____/____/____

Requisition Form		G V Research Center Pvt Ltd.		Date:	03-10-2022
Company Name:		INNOPOLIS		Time:	17:55
Site & Phase :		Unit No./Block No.		Req. No.	206313
Supplier:		ID No.		Qty required	1
Material required before date:		Item		Qty available at site	0
S No				Order Qty	Inward No
1	ELEC6799-Electrical-Transformer-----Nos			1	1
2					
3					
4					
5					
6					
7					
8					
9					
10					
Remarks:		2500KVA Transformer for GVRC site purpose.			
Engineer		Project Manager		Purchase	MD
Prepared By:	Md. Anwar	T. Madhu			
Approved By:					
Sign & Date:					

for AF

 T. Madhu
 03-10-2022

Request id: 80285
PO no: 925501

Draft pur div comparison statement of Transformer dt. 30-08-2022 ver 5
2500KVA Transformer

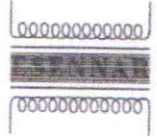
Preparation/Purchase comparison sheet									
Prepared by:		MD. Anwar							
Date:		30-08-2022							
				Net rate after discount + GST					
Sl. No.	SKU	Addition Specs	ESENNAR	Kanyaka Parameshwari Engg Ltd.	Vajra Transpower	Schneider Electric	Voltamp Transformers Limited	Last purchased rate/GVRC/ESENNAR	
1	Transformer 2500 kVA - Oil cooled	33kV/433V	45,00,000	49,32,400	45,00,000	78,37,560	45,43,000	39,70,700	
2									
3									
4									
5									
6									
7									
8									
9			45,00,000	49,32,400	45,00,000	78,37,560	45,43,000	39,70,700	
10	Total:								
Notes:		GVRC							
1	Material required for site:								
2	Details of requisition no., required by, etc.:								
3	Transport charges	Included.		Included. Delivery shall be mutually discussed if finalized.		Included.		Extra	
4	Delivery period	6-7 weeks.		50% as advance.		12-14 weeks.		10-12 weeks.	
5	Advance	30% as advance. Balance against Proforma Invoice.		Balance against Proforma Invoice.		20% as advance. Balance against Proforma Invoice.		30%+10% as advance. Balance against Proforma Invoice.	
6	Payment terms	Included.		Included.		Included.		Included.	
7	Loading cost	Extra.		Extra.		Extra.		Extra.	
8	Unloading cost	36 months from the date of dispatch.		38 months from the date of dispatch.		36 months from the date of dispatch.		18 months from the date of dispatch.	
9	Warranty								
10	Other term 1								
11	Other term 2								
12	Other term 3								

APPROVED BY
03 OCT 2022
MANAGING DIRECTOR



ESENNAR

TRANSFORMERS (P) LTD.-Unit-II



Date: 28/02/2023

To,
M/S. GV RESEARCH CENTERS PRIVATE LIMITED,
5-4-187/3&4, 2nd FLOOR, MG ROAD,
5-4-187/3&4, 2nd FLOOR, MG ROAD,
SECUNDERABAD, TELANGANA-500003.
Dear Sir,

Sub: Submission of documents for supply of 1 No. of 2500KVA(33000/433V) OLTC Transformer.

Ref: 1. Our Invoice No. 2022-23/743, Dated: 28/02/2023.
2. Your P.O. No: Doc No.92551 206313, Dt:23-11-2022.

With reference to the above subject, we would like to inform you that we have dispatched 1 No. of 2500KVA(33000/433V) OLTC Transformer vide our Invoice No. 2022-23/743, Dated: 28/02/2023 for an amount of Rs:46,18,000. Accordingly we are submitting the following documents for your perusal.

Manufacturers S. No	Description	Quantity
ET2-8152	Original GST Invoice No. 2022-23/743, Dated: 28/02/2023	1
	Transformer Test Certificates	1

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully
For ESENNAR TRANSFORMERS (P) LTD

Encl: a/a



(AUTHORISED SIGNATORY)



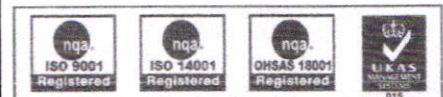
Office : Plot No. 12, Flat No. 4,
Aravinda Apartments, Sunder Nagar,
Hyderabad – 500 038.
Phone : +91-89781 71717

CIN: U40109TG2000PTC033244

Works : Plot No.2, Phase No. 1,
IDA, Pashamlaram,
Sangareddy Dist – 502 307.
Tel : 08455 – 224205 / 06

Fax : 08455 - 224173

E-mail : info@esennar.com, Web : www.esennar.com



An ISO 9001 : 2008, ISO 14001: 2015 &
OHSAS 18001: 2007 Certified company



Esennar Transformers Pvt. Ltd. Unit II

Plot No-2, Phase-1, IDA, Pashamailaram,, Sangareddy -502307,
Telangana.



CIN NO : U40109TG2000PTC033244

IEC Code: 0905007590

e-Invoice**1. e-Invoice Details**

IRN : afd616df7f8aa195475884edfd841dced0b
92ca2942c7d596dfd6061272c5934

Ack. No : 112315486788215

Ack. Date : 2023-02-28 16:55:00

2. Transaction Details

Category : B2B

Invoice No : 2022-23/743

PO No & Date : Doc No.92551 206313,
Dt:23-11-2022.

Document Type : Tax Invoice

Invoice Date : 28-02-2023

3. Party Details**Seller**

GSTIN : 36AAACE8075C1ZS

Esennar Transformers Pvt. Ltd. Unit II (20:

Plot No.2, Phase-1, IDA Pashamylaram,
Sangareddy (Dist)- 502307, Telangana.

Ph : +91 89781 71717

Buyer

GSTIN : 36AAHCG4562D1ZP

GV RESEARCH CENTERS PVT LTD

5-4-187/3&4, 2nd FLOOR, MG ROAD,
SOHAM MANSION, THURKAPALLY,

SECUNDERABAD.

500003

TELANGANA

State Code : 36

Ship to Details

GSTIN : 36AAHCG4562D1ZP

M/s.GV RESEARCH CENTERS PVT LTD., Sy
No.542, GENOME VALLEY,
THURKAPALLY, HYDERABAD.

TELANGANA 500078

THURKAPALLY

4. Goods Details

S No.	Product Description	HSN Code	SL No	Qty	UOM	Rate	Gross	Disc Amt	Freight	Taxable Amount	GST % Amt
1	2500KVA(33/0.433V)OLT C TRANSFORMER IS: 1180 LEVEL-2	85042200	ET2-8152	1.00	NOS	3913560.00	3913560.00	0.00		3913560.00	18.00
										704440.00	

Taxable Amt	CGST Amt	SGST Amt	IGST Amt	TCS Charges	Round Off Amt	Total Inv Amt
39,13,560.00	3,52,220.00	3,52,220.00	0.00	0.00	0.00	46,18,000.00-

5. e-Way Bill Details

E-Way Bill No :	111606276505	Trans Name :	DYNAMIC LOGISTICS OF INDI
E-Way Bill Gen Date :	2023-02-28 16:55:00	Trans Doc No :	34676
E-Way Bill Valid Date :	2023-03-01 23:59:00	Trans Date :	28-02-2023
Trans Mode :	Road-Regular		

Vehicle No : AP26X8883

Amt in Words :

FORTY SIX LAKH EIGHTEEN THOUSAND ONLY

For Esennar Transformers Pvt Ltd Unit-II

Authorized Signatory



ESENNAR TRANSFORMERS PRIVATE LIMITED

TRANSFORMER TESTING LABORATORY

ESENNAR TRANSFORMERS PRIVATE LIMITED,
Office & Works: Plot No. 2, Phase - I IDA, Pashamailaram,
Sanga Reddy (Dist) - 502307, Telangana State India,
Cell : 9912347123



TC-9783

TEST REPORT

Date of Issue of report : 28-02-2022
ULR No. : TC978323000000122F Discipline : Electrical Testing
Sample ID. : ETPL/2023/0091 Group : Inductors and Transformers
Report No : ETPL/TR/2023/0122
Date of sample receipt : 27-02-2022
Condition of the test item : Good
Date of Testing : 27-02-2022
Customer Name, Contact No. & Address : JAWED-9912347107, MARKETING-ESENNAR TRANSFORMERS PVT LTD.
End Customer Name & Address : M/s. Innopolis, Sy no-542, Genome Valley, Thurkapally, Hyderabad, Telangana.
Contractor : M/S. GV RESEARCH CENTERS PVT LTD.

DETAILS OF THE TRANSFORMER (As per IS 1180 : PART - 1, Amendment No.4 March-2021)

kVA Rating : 2500 S.L.No/W.O No. : ET2-8152
Rated voltage at no-load HV/LV : 33000/433 Volts Rated current - HV/LV : 43.74/3333.53 Amps
Vector Group : Dyn11 Energy Efficiency level : 2
Guaranteed Temperature rise : 40/45 °C Type of Transformer : Oil Immersed
No. of Phases : 3 Frequency : 50 Hz
Type of Cooling : ONAN Winding Material : Copper
Tap changer : On-load tap changer
Tappings on HV side : 10% to - 10% in steps of 1.25%
Max. Total Losses at 50% load at 75°C : 6343(MAX) Watts
Max. Total Losses at 100% load at 75°C : 18813(MAX) Watts
Percentage Impedance at 75°C : 6.25% ± IS Tol
Basic Insulation level of H.V : 170 kVp / 70 kVrms
Basic Insulation level of L.V : -- kVp / 3 kVrms
Year of manufacturing : 2023

PARTICULARS OF TEST CONDUCTED

S.No.	Test Details	Test Specifications-IS 1180 : 2014 With Amendment
1	Measurement of voltage ratio and check of phase displacement	As Per Cl.no.21.2.(b) of IS 1180 (Part-1) : 2014
2	Measurement of insulation resistance	As Per Cl.no.21.2.(e) of IS 1180 (Part-1) : 2014
3	Measurement of no-load loss and current	As Per Cl.no.21.2.(d) of IS 1180 (Part-1) : 2014
4	Measurement of short circuit Impedance and load loss at 50 percent and 100 percent load	As Per Cl.no.21.2.(c) of IS 1180 (Part-1) : 2014
5	Measurement of winding resistance	As Per Cl.no.21.2.(a) of IS 1180 (Part-1) : 2014
6	Separate-source voltage withstand test	As Per Cl.no.21.2.(g) of IS 1180 (Part-1) : 2014
7	Induced over-voltage withstand test	As Per Cl.no.21.2.(f) of IS 1180 (Part-1) : 2014
8	Breakdown Voltage of oil	IS 335-2018, IS 6792-2017, IS 1866-2017
9	Total loss at 50 percent load & 100 percent load	As Per Cl.no.7.8 of IS 1180 (Part-1) : 2014

Remarks:

The Transformer **conforms** to the guaranteed requirement as per mentioned test specification for above mentioned tests.

Note :

1. This report relates only to the particular sample tested
2. Only the tests asked by the customer have been carried out.
3. This report cannot be reproduced in part under in any circumstances.
4. Laboratory is responsible for reported test results and all other information is received from the internal customer .

**REVIEWED & AUTHORISED BY:**

(S.A. Rasheed)
Manager-ETPL

TESTED BY:

Ch. Sambasivarao
(CH Sambasivarao)
Testing Engineer-ETPL



ESENNAR TRANSFORMERS PRIVATE LIMITED

TRANSFORMER TESTING LABORATORY

ESENNAR TRANSFORMERS PRIVATE LIMITED,
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Cell : 9912347123



TC-9783

1. Measurement of Voltage Ratio :

ULR No. : TC978323000000122F

Allowable % deviation as per IS : $\pm 0.5\%$

Tap No	Specified Ratio	Measured			% Deviation		
		Uph	Vph	Wph	Uph	Vph	Wph
1	145.21	145.23	145.24	145.23	0.02%	0.02%	0.02%
2	143.56	143.48	143.48	143.48	-0.05%	-0.05%	-0.05%
3	141.91	141.92	141.92	141.92	0.01%	0.01%	0.01%
4	140.26	140.32	140.32	140.31	0.05%	0.05%	0.04%
5	138.61	138.61	138.61	138.61	0.00%	0.00%	0.00%
6	136.96	136.91	136.91	136.91	-0.03%	-0.03%	-0.03%
7	135.30	135.31	135.31	135.31	0.00%	0.00%	0.00%
8	133.65	133.71	133.71	133.71	0.04%	0.04%	0.04%
9	132.00	132.00	132.00	132.00	0.00%	0.00%	0.00%
10	130.35	130.41	130.41	130.41	0.04%	0.04%	0.04%
11	128.70	128.70	128.70	128.70	0.00%	0.00%	0.00%
12	127.05	127.10	127.10	127.10	0.04%	0.04%	0.04%
13	125.40	125.50	125.50	125.50	0.08%	0.08%	0.08%
14	123.75	123.80	123.80	123.80	0.04%	0.04%	0.04%
15	122.10	122.10	122.10	122.10	0.00%	0.00%	0.00%
16	120.45	120.50	120.50	120.50	0.04%	0.04%	0.04%
17	118.80	118.88	118.89	118.89	0.06%	0.07%	0.07%

2. Measurement of Insulation Resistance :

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) : 33.5

Ambient Temp.(°C) : 31.0

Applied Voltage	HV to LV (Mega ohms)	HV to (Earth+LV) (Mega ohms)	LV to (Earth+HV) (Mega ohms)
2500	7120	7530	4530

3. Measurement of No-load loss and current :

Applied on	Voltage (mean) U'	Voltage (rms) U	Measured loss (Watts)	Frequency (Hz)	Avg. No-load current (Amps)	Corrected No-Load loss (Watts)
LV side	433.15	433.30	2262.0	50.0	6.32	2261.2

4. Measurement of short-circuit Impedance and load loss :

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) : 33.5

Frequency (Hz) : 50.0

Ambient Temp.(°C) : 31.2

Percentage Load	Tap No	Impedance volts	Current Passed	Rated Current (Amps)	Measured Load loss at Amb.Temp (Watts)	Load loss at 75°C (Watts)	Percentage Impedance at 75°C
100%	9(N)	1931	43.76	43.74	14250.0	15458.1	5.85
50%	9(N)	967	21.96	21.87	3614.0	3888.0	2.92



REVIEWED & AUTHORISED BY:

(Signature)
(S.A. Rasheed)
Manager-ETPL

TESTED BY:

(Signature)
(CH Sambasivarao)
Testing Engineer-ETPL

ET/QC/F-007



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**5. Measurement of Winding Resistance :**

ULR No. : TC978323000000122F

Top oil Temp.(°C) : 34.3

Bottom oil Temp.(°C) : 32.6

Avg. oil Temp.(°C) 33.5

a) H.V Winding Resistance

Ambient Temp.(°C) 31.3

Tap No	1U-1V (Ohms)	1V-1W (Ohms)	1U-1W (Ohms)	Avg. Resistance/ph at Amb. Temp (Ohms)	Avg. Resistance/ph at 75°C (Ohms)
1	2.0050	2.0058	2.0040	3.0074	3.4729
9(N)	1.8138	1.8134	1.8150	2.7211	3.1423
17	1.6369	1.6373	1.6393	2.4568	2.8370

b) L.V Winding Resistance

	2U-2V (mOhms)	2V-2W (mOhms)	2U-2W (mOhms)	Avg. Resistance/ph at Amb. Temp (Ohms)	Avg. Resistance/ph at 75°C (Ohms)
	0.3378	0.3342	0.3424	0.00016906	0.00019522

6. Induced over-voltage withstand test :

Voltage applied on	Test Voltage (Volts)	Frequency (Hz)	Duration (Seconds)	Remarks
LV side	866	150	40 Seconds	Withstood : OK

7. Separate-source voltage withstand test :

Voltage applied between	Test Voltage (Volts)	Frequency (Hz)	Duration (Seconds)	Remarks
HV to Earth	70 kVrms	50	60	Withstood : OK
LV to Earth	3 kVrms	50	60	Withstood : OK

8. Oil break down Voltage (BDV) test :

Oil Temp.(°C) : 24.5 Ambient Temp.(°C) : 25.3 Frequency of the test Voltage : 61.8 Hz
 Type Of Electrodes : Spherical Stirrer Used : YES

Test	Test-1	Test-2	Test-3	Test-4	Test-5	Test-6	Average
BDV In kV	68	67	66	69	72	70	69

9. Total loss at 50 percent load & 100 percent load

Test particulars	No-load loss (Watts)	Load loss at 75°C (Watts)	Total losses (Watts)	Guaranteed Losses (Watts)
Max. Total losses at 50% load	2261.2	3888.0	6149.2	6343(MAX)
Max. Total losses at 100% load	2261.2	15458.1	17719.3	18813(MAX)

Measured percentage Impedance at 75°C

5.85 %

6.25% ± IS Tol

WITNESSED BY

Ramesh Reddy
 Project Manager
 Modi Properites Pvt Ltd

Akhil
 Sr. Engineer
 Modi Properites Pvt Ltd

-----END OF THE REPORT-----



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 (S.A. Rasheed)
 Manager-ETPL

TESTED BY:

(Signature)
 (CH Sambasivarao)
 Testing Engineer-ETPL